CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/CEMENT/2018-19 Date: 07.01.2019

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagara, Bangalore.
* Name of Work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	Cement
Sample Received on	:	05.01.2019
Period of Testing	:	05.01.2019 to 07.01.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Pooja K.L.

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Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/SAND-Gradation/2018-19 07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of Work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	05.01.2019
Date of Testing	:	07.01.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.50	90-100	90-100	90-100	95-100
2.36	78.50	60-95	75-100	85-100	95-100
1.18	57.50	30-70	55-90	75-100	90-100
600 Micron	41.50	15-34	35-59	60-79	80-100
300 Micron	21.50	5-20	8-30	12-40	15-50
150 Micron	5.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/AGG/GR/2018-19 07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of Work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	05.01.2019
Date of Testing	:	07.01.2019

Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.96	95-100	85-100
20	37.86	30-70	0-20
10	16.26	10-35	0-5
4.75	2.66	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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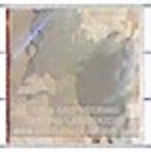
Job No.: CTCE/BBMP/SRPK/W.No.03/Steel/2018-19 09.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	09.01.2019



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	515	556	13.2	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SRPK/W.No.03/Steel/2018-19 09.01.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	09.01.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	519	561	13.25	O.K	O.K

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Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/Cube/2018-19

11.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of the work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.01.2019	11.02.2019	8.127	478.3	21.26
2	14.01.2019	11.02.2019	8.269	510.3	22.68
3	14.01.2019	11.02.2019	8.339	520.4	23.13

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* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.01.2019	11.02.2019	8.398	475.9	21.15
2	14.01.2019	11.02.2019	8.405	515.6	22.92
3	14.01.2019	11.02.2019	8.225	528.9	23.51

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14.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of the work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2019	14.02.2019	8.099	480.5	21.36
2	17.01.2019	14.02.2019	8.178	513.4	22.82
3	17.01.2019	14.02.2019	8.247	531.0	23.60

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Bed Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2019	14.02.2019	8.117	498.9	22.17
2	17.01.2019	14.02.2019	8.200	517.4	23.00
3	17.01.2019	14.02.2019	8.380	525.5	23.36

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Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/Cube/2018-19 16.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of the work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.01.2019	16.02.2019	8.127	483.5	21.49
2	19.01.2019	16.02.2019	8.223	532.6	23.67
3	19.01.2019	16.02.2019	8.333	516.4	22.95

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Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/Cube/2018-19

16.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of the work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.01.2019	16.02.2019	8.165	478.3	21.26
2	19.01.2019	16.02.2019	8.290	493.8	21.95
3	19.01.2019	16.02.2019	8.332	508.2	22.59

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/Cube/2018-19 16.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of the work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.01.2019	16.02.2019	8.137	510.4	22.68
2	19.01.2019	16.02.2019	8.205	515.6	22.92
3	19.01.2019	16.02.2019	8.390	521.9	23.20

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
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* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2019	19.02.2019	8.408	475.5	21.13
2	22.01.2019	19.02.2019	8.250	515.6	22.92
3	22.01.2019	19.02.2019	8.358	523.8	23.28

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* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2019	19.02.2019	8.358	475.5	21.13
2	22.01.2019	19.02.2019	8.408	499.8	22.21
3	22.01.2019	19.02.2019	8.225	518.7	23.05

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* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of the work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	19.02.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.01.2019	19.02.2019	8.108	498.6	22.16
2	22.01.2019	19.02.2019	8.210	516.3	22.95
3	22.01.2019	19.02.2019	8.339	522.6	23.23

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Job No.: CTCE/BBMP/SRPK/W.No.03/CSR-01/847k/Precast slab /2018-19

06.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. S.R. Prathap Kumar,** No.09, 11th Main Road, Venkateshwara Nilaya, Shivanagara, Rajajinagra, Bangalore.
* Name of work	:	Construction of RCC drain at Someshwaranagara, Chikkabettahalli in Ward No.03 BBMP, Bangalore.
* Reference	:	EE(YNK.D)E-PMT-20/W.O/97/2018-19 Dated: 19.12.2018
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	04.02.2019
Date of Testing	:	06.02.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.405	2578.31	1.60	0.957	30.85	15.71	16.97	17.73	22.17
2	50.00	83.00	0.413	2534.21	1.66	0.963	32.90	16.76	18.10	17.43	21.79
3	50.00	84.00	0.420	2546.48	1.68	0.965	33.95	17.29	18.67	18.03	22.54

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